

**IN THE CLAIMS:**

Please amend the claims as follows:

Claim 1. (Currently Amended). A method for diagnosing a ~~CMT1A and HNPP comprising:~~ Charcot-Marie-Tooth disease Type 1A (CMT1A) and Hereditary Neuropathy with liability to Pressure Palsies (HNPP), comprising:

running ~~the~~ PCR amplification using microsatellites present in the chromosome 17p11.2-p12 region as markers; and

DNA typing the resulting PCR amplification products to determine the presence of duplication and deletion in the corresponding chromosomal region,

wherein PCR amplification is carried out using at least 3 markers selected from the group consisting of D17S921, D17S9B, D17S9A, D17S918, D17S2230 and D17S4A.

Claim 2. (Original). The method according to claim 1, wherein PCR is carried out to simultaneously amplify 6 markers, using a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; primers of SEQ. ID. NOS: 7 and 8; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations and a standard allele ladder.

Claim 3. (Original). The method according to claim 1,

wherein the method includes:

(a) PCR amplification of 3 markers and DNA typing of the resulting PCR amplification products, using a mixture of primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; and primers of SEQ. ID. NOS: 7 and 8 in differential concentrations and a standard allele ladder, thereby firstly determining duplication and deletion in the 17p11.2-p12 region; and

(b) PCR amplification of the remaining 3 markers and DNA typing of the resulting PCR amplification products, using a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations and a standard allele ladder, thereby secondly determining duplication and deletion in the 17p11.2-p12 region.

Claim 4. (Currently Amended). A kit for diagnosing a ~~CMT1A~~ and ~~HNPP~~ Charcot-Marie-Tooth disease Type 1A (CMT1A) and Hereditary Neuropathy with liability to Pressure Palsies (HNPP), by determination of duplication and deletion in the chromosome 17p11.2-p12 region, comprising:

a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; primers of SEQ. ID. NOS: 7 and 8; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations; and

a standard allele ladder.

Claim 5. (Currently Amended). A kit for diagnosing ~~a CMT1A~~  
~~and HNPP~~ a Charcot-Marie-Tooth disease Type 1A (CMT1A) and  
Hereditary Neuropathy with liability to Pressure Palsies (HNPP),  
by determination of duplication and deletion in a chromosome  
17p11.2-p12 region, comprising:

a first kit including a mixture of primers of SEQ. ID. NOS:  
3 and 4; primers of SEQ. ID. NOS: 5 and 6; and primers of SEQ.  
ID. NOS: 7 and 8 in differential concentrations and a standard  
allele ladder; and

a second kit including a mixture of primers of SEQ. ID. NOS:  
1 and 2; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ.  
ID. NOS: 11 and 12 in differential concentrations and a standard  
allele ladder.